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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/711,700	09/30/2004	Kevin S. Petrarca	FIS920040258US1	5699
32074 7590 06/28/2007 INTERNATIONAL BUSINESS MACHINES CORPORATION DEPT. 18G			EXAMINER	
			NGUYEN, TRAM HOANG	
BLDG. 300-482 2070 ROUTE 5		ART UNIT	PAPER NUMBER	
HOPEWELL JUNCTION, NY 12533			2818	
			MAIL DATE	DELIVERY MODE
			06/28/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Advisory Action Before the Filing of an Appeal Brief

Application No.		Applicant(s)	
10/711,7	00	PETRARCA ET AL.	
Examiner		Art Unit	
Tram H. Nguyen		2818	

The MAILING DATE of this communication appears on the cover sheet with the correspondence address
THE REPLY FILED 14 June 2007 FAILS TO PLACE THIS APPLICATION IN CONDITION FOR ALLOWANCE.
1. The reply was filed after a final rejection, but prior to or on the same day as filing a Notice of Appeal. To avoid abandonment of this application, applicant must timely file one of the following replies: (1) an amendment, affidavit, or other evidence, which places the application in condition for allowance; (2) a Notice of Appeal (with appeal fee) in compliance with 37 CFR 41.31; or (3) a Request for Continued Examination (RCE) in compliance with 37 CFR 1.114. The reply must be filed within one of the following time periods:
a) The period for reply expiresmonths from the mailing date of the final rejection.
b) The period for reply expires on: (1) the mailing date of this Advisory Action, or (2) the date set forth in the final rejection, whichever is later. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of the final rejection.
Examiner Note: If box 1 is checked, check either box (a) or (b). ONLY CHECK BOX (b) WHEN THE FIRST REPLY WAS FILED WITHIN TWO MONTHS OF THE FINAL REJECTION. See MPEP 706.07(f).
Extensions of time may be obtained under 37 CFR 1.136(a). The date on which the petition under 37 CFR 1.136(a) and the appropriate extension fee have been filed is the date for purposes of determining the period of extension and the corresponding amount of the fee. The appropriate extension fee under 37 CFR 1.17(a) is calculated from: (1) the expiration date of the shortened statutory period for reply originally set in the final Office action; or (2) as set forth in (b) above, if checked. Any reply received by the Office later than three months after the mailing date of the final rejection, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).
NOTICE OF APPEAL
2. The Notice of Appeal was filed on A brief in compliance with 37 CFR 41.37 must be filed within two months of the date of filing the Notice of Appeal (37 CFR 41.37(a)), or any extension thereof (37 CFR 41.37(e)), to avoid dismissal of the appeal. Since a Notice of Appeal has been filed, any reply must be filed within the time period set forth in 37 CFR 41.37(a). AMENDMENTS
3. The proposed amendment(s) filed after a final rejection, but prior to the date of filing a brief, will <u>not</u> be entered because
(a) ⊠ They raise new issues that would require further consideration and/or search (see NOTE below);
(b) They raise the issue of new matter (see NOTE below);
(c) They are not deemed to place the application in better form for appeal by materially reducing or simplifying the issues for appeal; and/or
(d) They present additional claims without canceling a corresponding number of finally rejected claims.
NOTE: See continutation Sheet. (See 37 CFR 1.116 and 41.33(a)).
4. The amendments are not in compliance with 37 CFR 1.121. See attached Notice of Non-Compliant Amendment (PTOL-324).
5. Applicant's reply has overcome the following rejection(s):
6. Newly proposed or amended claim(s) would be allowable if submitted in a separate, timely filed amendment canceling the non-allowable claim(s).
7. For purposes of appeal, the proposed amendment(s): a) will not be entered, or b) will be entered and an explanation of how the new or amended claims would be rejected is provided below or appended. The status of the claim(s) is (or will be) as follows: Claim(s) allowed:
Claim(s) objected to:
Claim(s) rejected: <u>1,4,5,13 and 15</u> .
Claim(s) withdrawn from consideration: <u>6-12 and 16-20</u> .
AFFIDAVIT OR OTHER EVIDENCE
8. The affidavit or other evidence filed after a final action, but before or on the date of filing a Notice of Appeal will <u>not</u> be entered because applicant failed to provide a showing of good and sufficient reasons why the affidavit or other evidence is necessary and was not earlier presented. See 37 CFR 1.116(e).
9. The affidavit or other evidence filed after the date of filing a Notice of Appeal, but prior to the date of filing a brief, will <u>not</u> be entered because the affidavit or other evidence failed to overcome <u>all</u> rejections under appeal and/or appellant fails to provide a showing a good and sufficient reasons why it is necessary and was not earlier presented. See 37 CFR 41.33(d)(1).
10. The affidavit or other evidence is entered. An explanation of the status of the claims after entry is below or attached.
REQUEST FOR RECONSIDERATION/OTHER
11. The request for reconsideration has been considered but does NOT place the application in condition for allowance because: <u>See the continuation sheet.</u>
12. Note the attached Information Disclosure Statement(s). (PTO/SB/08) Paper No(s)
13. Other: STEVEN LOKE
SUPERVISORY PATENT EXAMINER
Stern Loke
Alene Foke

U.S. Patent and Trademark Office PTOL-303 (Rev. 08-06)

Continuation Sheet (PTO-303)

Application No.

underline

Continuation of claim 3. The underling portions of claim 1,4, and 5 would require further consideration and/or search.

Continuation of 11. In response to the request to continue examination filed on 06/14/2007, note that the phrase "said impurity content" refers to the 'impure copper seed layer' which is appeared in the last setence of the previous presented claim 13. The argument is found persuasive. Therefore, rejection of claim 13 under 35 U.S.C. 112, second paragraph is withdrawn.

Examiner still maintains the rejection of claim 13 under 35 U.S.C. 103 since Andricacos teaches the impure content of the impure copper fill contains a small amounts of other materials in the Cu selected from the group consisting of C (less than 2 weight %), O (less than 1 weight %), N (less than 1 weight %), S (less than 1 weight %), and Cl (less than 1 weight %) (see Andricacos: col. 2, lines 60-67).

With regard claim 13, Applicant claims that the material composidition of the impure copper seed is subtantially the same as material composition of said impure copper fill. Therefore, Andricacos reference can still read on the limitation wherein "the impurty content of copper seed comprising not more than 1.20% by weight and not less than or equal to 0.001% by weight."